## This Page Is Inserted by IFW Operations and is not a part of the Official Record

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

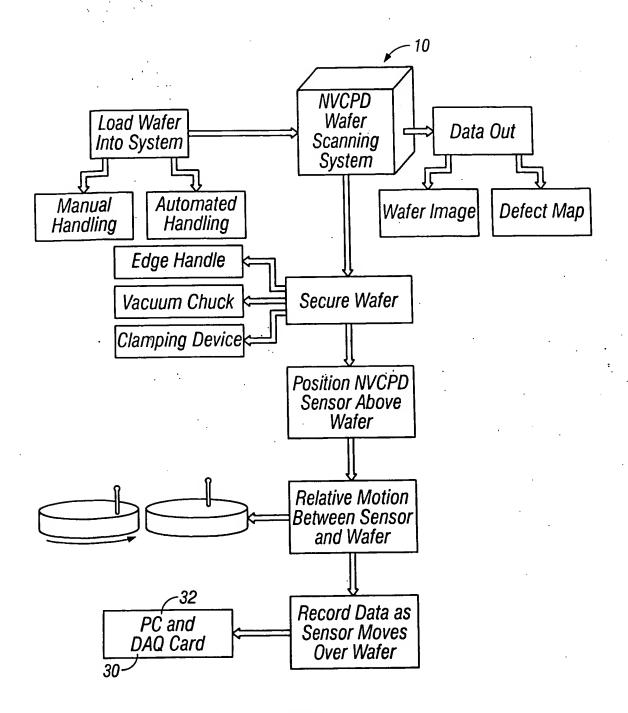
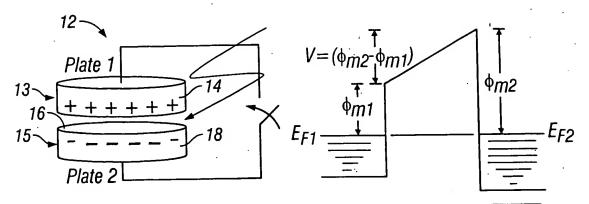


FIG. 1



 $E_F$ : Fermi Energy of Electrons  $\phi_m$ : Work Function

FIG. 2

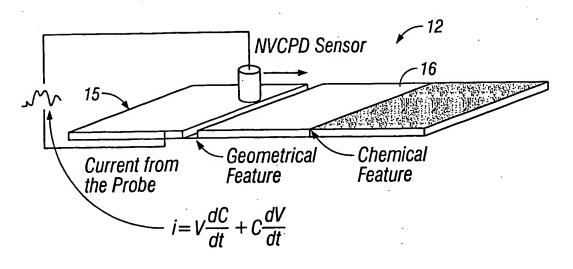
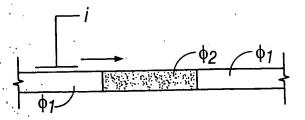


FİG. 3



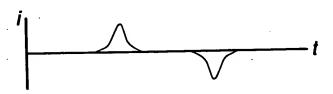


FIG. 4

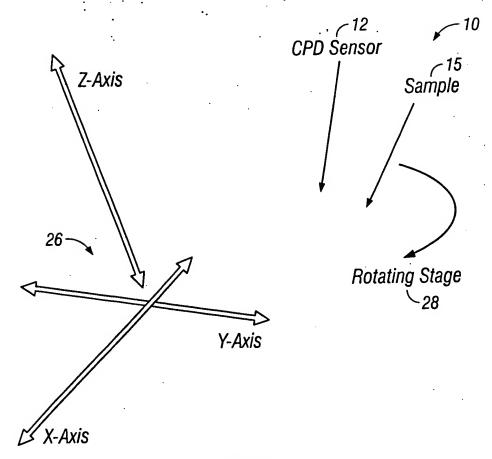


FIG. 5

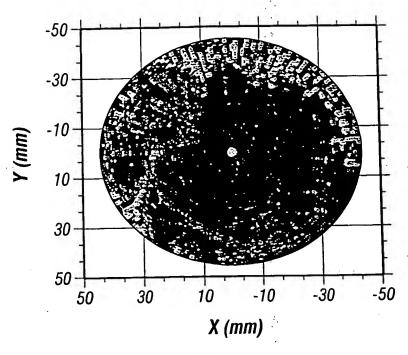


FIG. 6

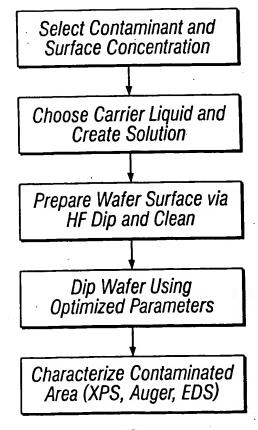
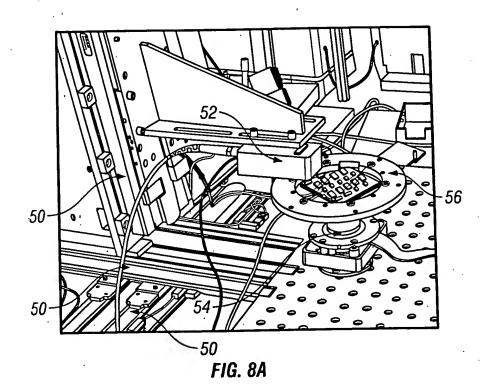


FIG. 7



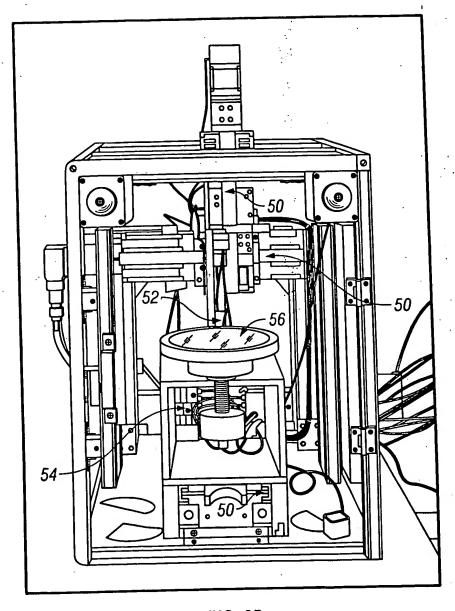


FIG. 8B

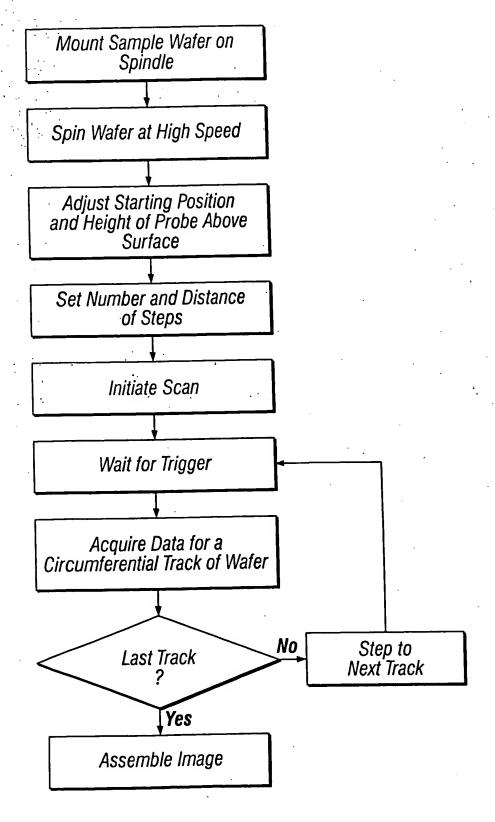


FIG. 9

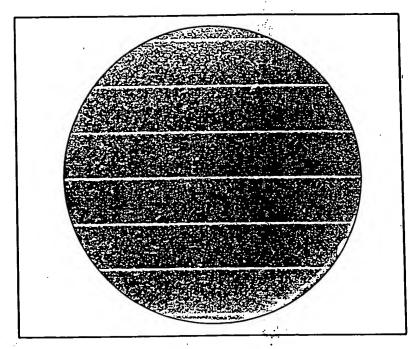


FIG. 10A

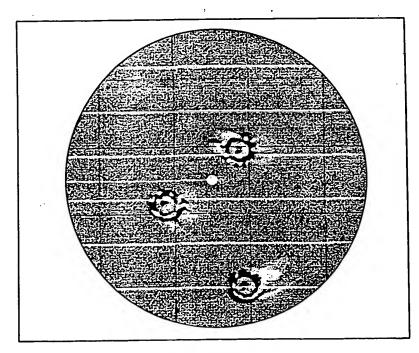


FIG. 10B

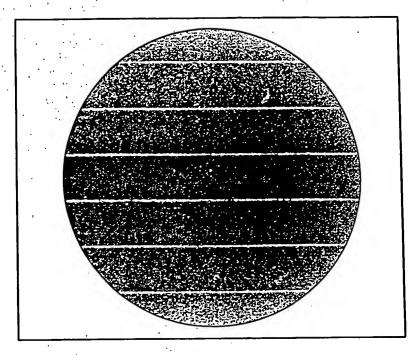


FIG. 11A

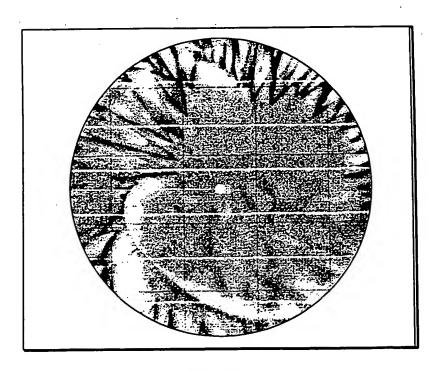


FIG. 11B

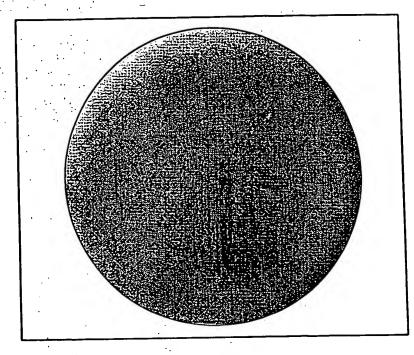


FIG. 12A

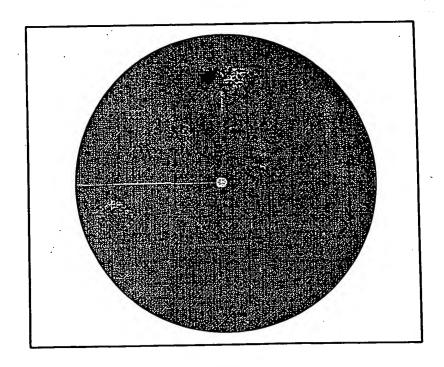


FIG. 12B

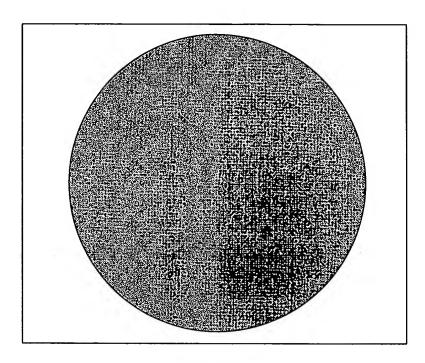


FIG. 13A

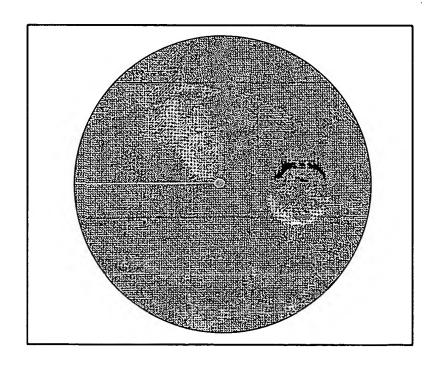


FIG. 13B

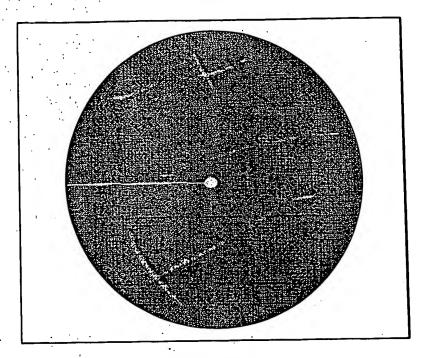


FIG. 14

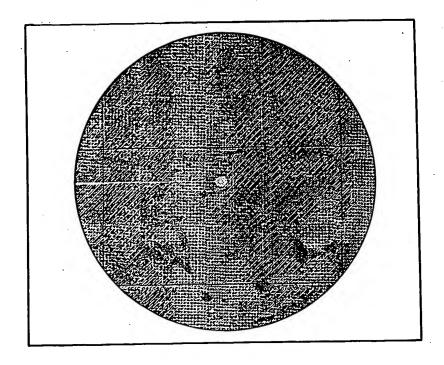


FIG. 15

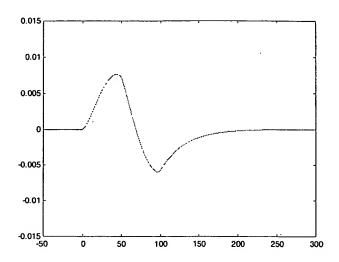


Figure 16 Original signal

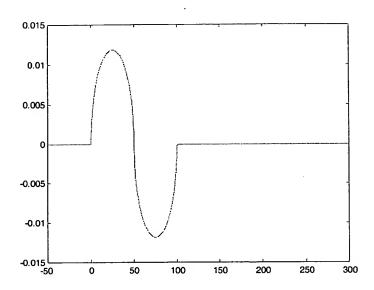


Figure 17 Deconvoluted signal

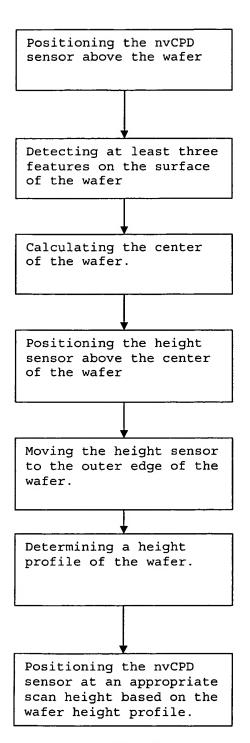


FIG. 18

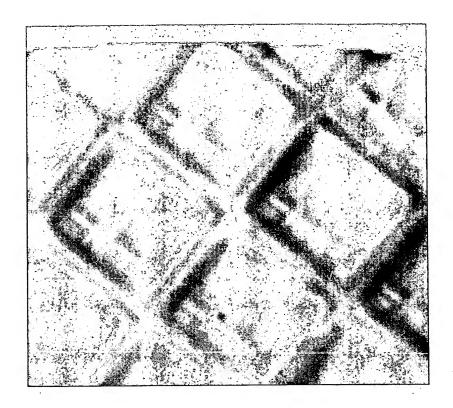


FIG.19

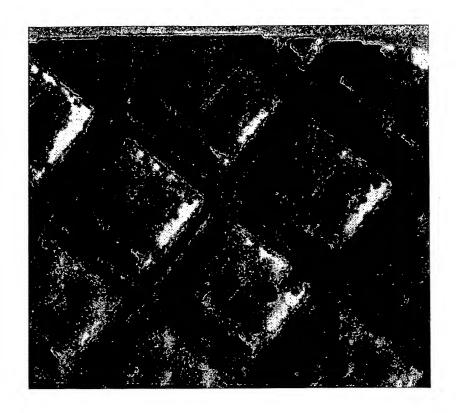


FIG. 20

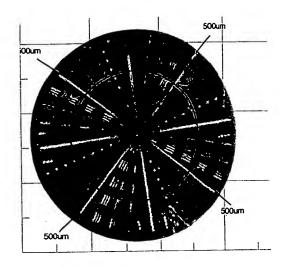
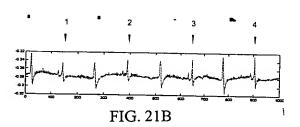


FIG. 21A



## **CPDI Signal Strength vs Surface Density**

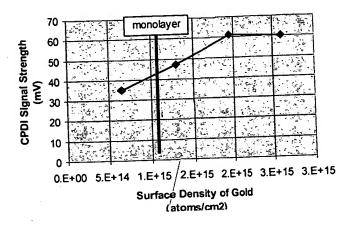


FIG. 21C

